

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. 70025-991		SERIAL NO. 09/483,837	
				APPLICANT(S) Shubh D. Sharma			
				FILING DATE January 17, 2000		GROUP Unknown-16359	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>TJW</i> <div style="border-left: 1px solid black; height: 100px; margin-left: 10px;"></div>	4,390,528	06/28/83	NAJJAR	424	177		
	4,427,646	01/24/84	OLEXA et al.	424	1.1		
	4,479,930	10/30/84	HNATOWICH	424	1.1		
	4,578,079	03/25/86	RUOSLAHTI et al.	623	11		
	4,650,787	03/17/87	SCHALLY et al.	514	11		
	4,668,503	05/26/87	HNATOWICH	424	1.1		
	4,680,276	07/14/87	BACH et al.	436	542		
	4,732,864	03/22/88	TOLMAN	436	547	DEC 3 - 2004	
	4,849,505	07/18/89	STAVRIANOPOULOS	530	300	TECH CENTER 1600/2988	
	4,859,765	08/22/89	NESTOR, JR. et al.	530	333		
✓	4,863,898	09/05/89	ASHMEAD et al.	514	6		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<i>TJW</i>	2,016,235	11 Sep 90	Canada	—	—		
↓	94810008.6	10 Jan 94	EPO	—	—		
↓	PCT/US93/05372	04 Jun 93	PCT <i>World</i>	—	—		
↓	PCT/US93/04794	21 May 93	PCT	—	—		
↓	PCT/US93/03687	19 Apr 93	PCT	—	—		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>TJW</i>		"Conformational Restrictions of Biologically Active Peptides Via Amino Acid Side Chain Groups" by V. J. Hruby. Life Sciences, Vol. 31, pp. 189-199. "Complexes of Technetium-99m with Tetrapeptides, a New Class of Tc-labelled Agents" by H.P. Vanbilloen et al. Nuc. Med. Bio., 22: 325-337.					
<i>TJW</i>		"Secondary Structure Nucleation in Peptides. Transition Metal Ion Stabilized α-Helices" by M.R. Ghadiri et al. J. Am. Chem. Soc. 1990. Vol. 112, No. 4. pp. 1630-1632 "Peptide Architecture. Design of Stable α Helical Metallopeptides via a Novel Exchange-Inert Ru iii Complex" by M.R. Ghadiri et al. J. Am Chem. Soc. 1990, Vol. 112, No. 26. pp. 9633-9635					
EXAMINER <i>T.D. 4</i>				DATE CONSIDERED <i>3/18/05</i>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

INFORMATION DISCLOSURE CITATION
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ATTY DOCKET NO.
70025-99²²

SERIAL NO.
09/483,837

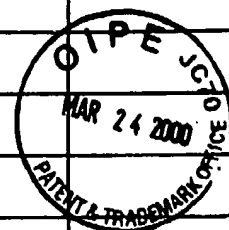
APPLICANT(S)
Shubh D. Sharma

FILING DATE
January 17, 2000

GROUP
~~Unknown~~ 1679

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ph	4,883,861	11/28/89	GRILL et al.	530	326	
	4,986,979	01/22/91	MORGAN, JR. et al.	424	1.1	
	5,028,593	07/02/91	NISHIOKA	514	18	
	5,023,237	06/11/91	PICKART	514	18	
	5,059,588	10/22/91	PICKART	514	12	
	5,091,176	02/25/92	BRAATZ et al.	424	78.17	
	5,118,665	06/02/92	PICKART	514	6	
	5,157,023	10/20/92	LIPTON	514	18	
	5,196,510	03/23/93	RODWELL et al.	530	324	
	5,200,504	04/06/93	GHADIRI	530	304	
✓	5,214,131	05/25/93	SANO et al.	530	345	



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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
ph	PCT/US93/02320	12 Mar 93	PCT World	—	—		
	PCT/US92/10716	19 Nov 92	PCT	—	—		
	PCT/US94/06274	03 Jun 94	PCT	—	—		
	PCT/US94/08335	21 Jul 94	PCT	—	—		
NOT back	PCT/US92/00757	07 Feb 92	PCT	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ph	"A Convergent Approach to Protein Design. Metal Ion-Assisted Spontaneous Self-Assembly of a Polypeptide into a Triple-Helix Bundle Protein" by M.R. Ghadiri et al. J. Am. Chem. Soc. 1992, Vol. 114, No. 3, pp. 825-831.
	"Synthesis and Radiochemical Studies of Model Chelators For Tc-99m" by P.R. Singh et al. Proceedings of the 43rd Annual Meeting, Journal of Nuclear Medicine. June 4, 1996. p. 28p.
	"A Review of the Utility of Soluble Peptide Combinatorial Libraries" by C. Pinilla et al. Biopolymers (Peptide Science), Vol. 37, 1995. pp. 221-240.
	"Design of Metal ion Binding Peptides" by R. Fattorusso et al. Biopolymers (Peptide Science), Vol. 37, 1995. pp. 401-410.

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SERIAL NO.
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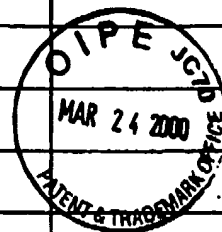
APPLICANT(S)
Shubh D. Sharma

FILING DATE
January 17, 2000

GROUP
Unknown 1639

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TW	5,225,180	07/06/93	DEAN et al.	424	1.1	
J	5,328,840	07/12/94	COLLER	435	240.2	
J	5,371,184	12/06/94	RAJAGOPALAN et al.	530	324	
TW	5,382,513	01/17/95	LAM et al.	435	7.1	
TW	5,382,654	01/17/95	LYLE et al.	530	311	
J	5,395,609	03/07/95	STUTTLE	424	1.69	
J	5,408,036	04/18/95	GHADIRI	530	304	
J	5,410,020	04/25/95	GHADIRI	530	333	
J	5,438,119	08/01/95	RUTTER et al.	530	333	
J	5,440,013	08/08/95	KAHN	530	317	
J	5,443,815	08/22/95	DEAN et al.	424	1.41	



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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
TW	PCT/US93/06029	23 Jun 93	PCT World	-	-		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TW	"Novel Biopolymers for Drug Discovery" by E.J. Moran et al. Biopolymers (Peptide Science) Vol. 37, 1995. pp. 213-219.
J	"One-Bead-One-Structure Combinatorial Libraries" by M. Lebl et al. Biopolymers (Peptide Science) Vol. 37, 1995. pp. 177-198.
J	"Discovery of Sequence-Selective Peptide Binding by Synthetic Receptors Using Encoded Combinatorial Libraries" By W.C. Still. Acc. Chem. Res. 1996, Vol. 29, No. 3. pp. 155-163.
J	"Strategy and Tactics in Combinatorial Organic Synthesis. Applications to Drug Discovery" By E.M. Gordon et al. Acc. Chem. Res. 1996, Vol. 29, No. 3. pp. 144-154.

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INFORMATION DISCLOSURE TATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. 70025-9902	SERIAL NO. 09/483,837
	APPLICANT(S) Shubb D. Sharma	
	FILING DATE January 17, 2000	GROUP 1619 Unknown

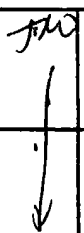
U.S. PATENT DOCUMENTS

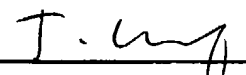
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY DOCKET NO. 70025-9902	SERIAL NO. 09/483,837
	APPLICANT(S) Shubh D. Sharma	
	FILING DATE January 17, 2000	GROUP 1C39 Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
							DEC 3 - 2004

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		"Zinc Coordination, Function, and Structure of Zinc Enzymes and Other Proteins" By B.L. Vallee et al. Biochemistry, Vol. 29 No. 24, 1990. pp. 5647-5659. "Zinc Fingers" By D. Rhodes et al. Scientific American, Feb. 1993. pp. 56-65. "A Consensus Zinc Finger peptide: Design, High-Affinity Metal Binding, a pH-Dependent Structure, and a His to Cys Sequence Variant" By B.A. Krizek. H. Am. Chem. Soc., Vol. 113 No. 12, 1991. pp. 4518-4523. "Calcium-Induced Peptide Association to Form an Intact Protein Domain: 1H NMR Structural Evidence" By G.S. Shaw et al. Science, July, 1990. pp. 280-283.

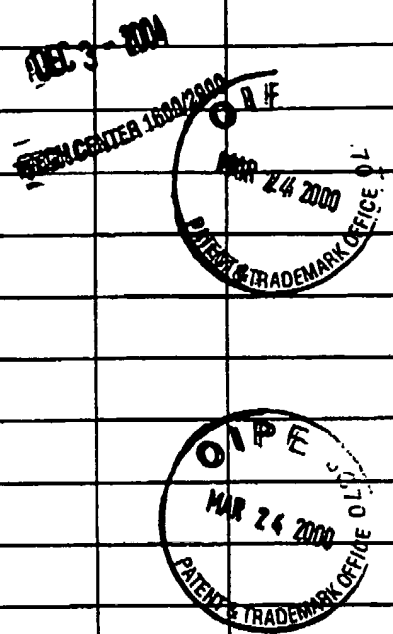
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APPLICANT(S) Shubh D. Sharma	
FILING DATE January 17, 2000	GROUP 1C 39 Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE



FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

↓	"Calcium-induced Protein Folding: Structure-Affinity Relationships in Synthetic Analogs of the Helix-Loop-Helix Calcium Binding Unit" By R.E. Reid et al. J. Bio. Chem. Vol. 256, No. 6, 1981. pp. 2742-2751.
↓	"Iron (II) Organizes a Synthetic Peptide into Three-Helix Bundles" By M. Lieberman et al. J. Am. Chem. Soc., 1991, Vol. 113 No. 4. pp. 1470-1471.
↓	"Conformationally restricted peptides through short-range cyclizations" By C. Toniolo. Int. J. Peptide Protein, Res. 35. 1990. pp. 287-300.
↓	"Peptide-Membrane Interactions and a New Principle in Quantitative Structure-Activity Relationships" By R. Schwyzer. Biopolymers, Vol. 31, 1991. pp. 785-792.

EXAMINER T. Wang	DATE CONSIDERED 3/18/05
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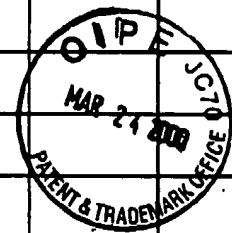
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary.)

Docket Number (Optional) 70025-9902	Application Number 09/483,837
Applicant(s) Shubh D. Sharma	
Filing Date January 17, 2000	Group Art Unit 1639 Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE



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FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

tdw	"Conformation and complexation with metal ions of cyclic hexapeptides: cyclo (L-Leu-L-Phe-L-Pro) ₂ and cyclo [L-Cys(Acm)-L-Phe-L-Pro] ₂ " By E. Ozeki et al. Int. J. Peptide Protein Res. 34, 1989, pp. 111-117.
↓	"Design, Synthesis, and Complexing Properties of (1Cys-1'Cys,4Cys-4'Cys)-dithiobis(Ac-L1Cys-L-Pro-D-Val-L-4Cys-NH ₂). The First Example of New Family of Ion-Binding Peptides" J. Am. Chem. Soc. Vol. 115-25, pp. 11664-11670.
↓	"Homodimeric and Heterodimeric Bis(amino thiol) Oxometal Complexes with Rhenium(V) and Technetium(V). Control of Heterodimeric Complex Formation and an Approach to Metal Complexes that Mimic Steroid Hormones" By D.Y. Chi et al. J. Med. Chem., 1994, Vol. 37 No. 7, pp. 928-937
	"Protein Structure" By V.J. Hruby et al. Synthetic Peptides, A User's Guide, 1992, pp. 24-33.

EXAMINER T. Wang	DATE CONSIDERED 9/18/85
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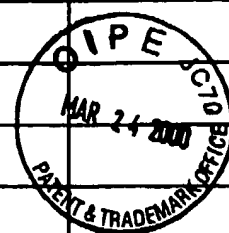
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INFORMATION DISCLOSURE
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Docket Number (Optional) 70025-9902		Application Number 09/483,837
Applicant(s) Shubb D. Sharma		
Filing Date January 17, 2000	Group Art Unit Unknown 163	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE



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FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>TM</i>		"Secondary Structure Prediction" By V.J. Hruby et al. Synthetic Peptides, A User's Guide, 1992. pp. 39-41.

EXAMINER T. W.	DATE CONSIDERED 3/18/05
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PTO/SB/08B (10-96)

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN		
				Application Number	09/483,837	
				Filing Date	January 17, 2000 DEC 3 - 2004	
				First Named Inventor	SHARMA, Shubh D.	
				Group Art Unit	1616 TECH CENTER 1604/2300	
				Examiner Name	D. Jones	
Sheet	1	of	1	Attorney Docket Number		70025-9902-11

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
tdw		SEVERIN, Kay, et al., "Bioorganometallic Chemistry-Transition Metal complexes with α -Amino Acids and Peptides," <i>Angew. Chemie, International Edition</i> , Vol. 37, No. 12, June 1998, pp. 1635-1654.	
		FRANCIS, Matthew B., et al., "Combinatorial Libraries of Transition-metal Complexes, Catalysts and Materials," <i>Cur. Opin. in Chem. Biol.</i> , Vol. 2, June 1998, pp. 422-428	
		FRANCIS, Matthew B., et al., "Combinatorial Approach to the Discovery of Novel Coordination Complexes," <i>J. Amer. Chem. Soc.</i> , Vol. 118, No. 37, 18 Sept. 1996, pp. 8983-8984.	

Examiner Signature	T. Wesseling	Date Considered	2/12/01
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¹ Unique citation designation number. 2. Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (10-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		COMPLETE IF KNOWN			
		Application Number	09/483,837		
		Filing Date	January 17, 2000		
		First Named Inventor	SHARMA, Shubh D.		
		Group Art Unit	1616		
		Examiner Name	D. Jones		
Sheet	1	of	1	Attorney Docket Number	70025-9902-11

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TBW		5,565,325		Blake	Oct. 15, 1996	—
		5,498,538		Key, et al.	Mar. 12, 1996	—

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T
TBW		WO	97/33626		Univ. of Massachusetts	18 Sep. 1997	—	
TBW		WO	99/10016		Resolution Pharmaceuticals, Inc.	4 Mar. 1999	—	
Examiner Signature	T. W. Kennedy				Date Considered	2/12/01		

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1. Unique citation designation number. 2. See attached Kinds of U.S. Patent Documents. 3. Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 4. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6. Applicant is to place a check mark here if English language Translation is attached.